

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions and listings of claims in the above-referenced application.

Listing of Claims:

1.-8. Canceled.

9. (previously presented) The composition of claim 12 or 65, wherein said polymer is poly(lactic acid)-co-poly(ethylene glycol) (PLA-PEG).

10. (previously presented) The composition of claim 12 or 65, wherein said biodegradable polymer is selected from the group consisting of polymers of poly(hydroxy acids), polyanhydrides, polyorthoesters, polyphosphazenes, polyphosphates, polycaprolactone, polyhydroxybutyrate, polyesters, polyamides, polysaccharides, and polyproteins.

11. Canceled.

12. (previously presented) A composition comprising a biomaterial architecture having a ligand attached thereto through a biomolecular interaction, wherein said biomaterial architecture comprises a biodegradable polymer having an anchor moiety incorporated therein, and wherein said biomolecular interaction is effected by an anchor-adapter-tag unit comprising the anchor, a tag attached to the ligand, and an adapter that links the anchor and the tag, wherein the unit is retained on the polymer by the anchor, wherein the anchor and tag comprise the same or different hapten, and the adapter comprises an antibody having specificity for the hapten(s).

13. (previously presented) The composition of claim 12, 65, or 66, wherein said ligand is selected from the group consisting of peptide, protein, carbohydrate, nucleic acid, lipid, polysaccharide, inorganic molecule, organic molecule, and combinations thereof.

14.-64. Canceled.

65. (previously presented) A composition comprising a biomaterial architecture having a ligand attached thereto through a biomolecular interaction, wherein said biomaterial architecture comprises a biodegradable polymer having an anchor moiety incorporated therein, and wherein said biomolecular interaction is effected by an anchor-adapter-tag unit comprising the anchor, a tag attached to the ligand, and an adapter that links the anchor and the tag, wherein the unit is retained on the polymer by the anchor, further comprising a therapeutic agent, wherein said therapeutic agent is formulated with the polymer to generate a biomaterial architecture having a therapeutic agent encapsulated therein.

66. (currently amended) The composition of claim 12 or 65, further comprising a therapeutic agent, wherein said therapeutic agent is a ligand attached to the biomaterial architecture through a biomolecular interaction.

67. (previously presented) The composition of claim 12 or 65, wherein said biomaterial architecture comprises a particle.

68. (previously presented) The composition of claim 12 or 65, wherein said biomaterial architecture comprises a nanosphere or microsphere.

69.-72. Cancelled.

73. (previously presented) The composition of claim 12 or 65, wherein said biodegradable polymer is a copolymer of a polymer selected from the group consisting of poly(hydroxy acids), polyanhydrides, polyorthoesters, polyphosphazenes, polyphosphates, polycaprolactone, polyhydroxybutyrate, polyesters, polyamides, polysaccharides, and polyproteins.

74. (previously presented) The composition of claim 12 or 65, wherein said biodegradable polymer is a blend of any of the polymers selected from the group of polymers consisting of poly(hydroxy acids), polyanhydrides, polyorthoesters, polyphosphazenes, polyphosphates, polycaprolactone, polyhydroxybutyrate, polyesters, polyamides, polysaccharides, and polyproteins.

75. (new) The composition of claim 65, wherein said therapeutic agent is a ligand attached to the biomaterial architecture through a biomolecular interaction